

X16758M.ST25.txt
SEQUENCE LISTING

<110> Watkins, Jeffry D.
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Huse, William D.

<120> TNF-alpha Binding Molecules

<130> X-16758M

<140> PCT/US04/00290

<141> 2004-01-08

<150> 10/338,552

<151> 2003-01-08

<150> 10/338,627

<151> 2003-01-08

<160> 114

<170> PatentIn version 3.3

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Glu Lys Val Thr Ile Thr Cys Arg Ala Ser Gln Phe Val Gly Ser Ser
20 25 30

Ile His Trp Tyr Gln Gln Lys Pro Asp Gln Ser Pro Lys Leu Leu Ile
35 40 45

Lys Tyr Ala Ser Glu Ser Met Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Asn Ser Leu Glu Ala
65 70 75 80

Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Ser His Ser Trp His Phe
85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

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gatcagtctc caaagctcct catcaagtat gcttctgagt ctatgtctgg ggtcccctcg 180
aggttcagtg gcagtggatc tgggacagat ttcaccctca ccatcaatag cctggaagct 240
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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn His
20 25 30
Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Gly Glu Ile Arg Ser Lys Ser Ile Asn Ser Ala Thr His Tyr Ala Glu
50 55 60
Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Ser
65 70 75 80
Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr
85 90 95
Tyr Cys Ala Arg Asn Tyr Tyr Gly Ser Thr Tyr Asp His Trp Gly Gln
100 105 110
Gly Thr Leu Val Thr Val Ser Ser
115 120

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ccaggggaagg ggctggagtg ggttggcgaa attagatcaa aatctattaa ttctgcaaca 180
cattatgcgg agtctgtgaa agggagattc accatctcaa gagatgattc aaagaactca 240
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Glu Ile Val Leu Thr Gln Ser Pro Asp Phe Gln Ser Val Thr Pro Lys
1 5 10 15

Glu Lys Val Thr Ile Thr Cys Arg Ala Ser Gln Phe Val Gly Tyr Ser
20 25 30

Ile His Trp Tyr Gln Gln Lys Pro Asp Gln Ser Pro Lys Leu Leu Ile
35 40 45

Lys Tyr Ala Ser Glu Ser Arg Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Asn Ser Leu Glu Ala
65 70 75 80

Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Ser His Ser Trp His Phe
85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

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gatcagtctc caaagctcct catcaagtat gcttctgagt ctaggtctgg ggtcccctcg      180
aggttcagtg gcagtggatc tgggacagat ttcaccctca ccatcaatag cctggaagct      240
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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Lys Phe Ser Asn His
          20          25          30

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Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
          35          40          45

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Gly Glu Ile Arg Ser Lys Ser Met Asn Ser Ala Thr His Tyr Ala Glu
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Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Ser
65          70          75          80

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Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr
          85          90          95

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Tyr Cys Ala Arg Asn Tyr Tyr Gly Ser Thr Tyr Asp His Trp Gly Gln
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Gly Thr Leu Val Thr Val Ser Ser
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ccaggggaagg ggctggagtg ggttggcgaa attagatcaa aatctatgaa ttctgcaaca 180
cattatgcgg agtctgtgaa agggagattc accatctcaa gagatgattc aaagaactca 240
ctgtacctgc agatgaacag cctgaaaacc gaggacacgg ccgtgtatta ctgtgctaga 300
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agggccagtc agttcgttgg ctcaagcatc cac 33

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<210> 12

<211> 33

<212> DNA

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<210> 13
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<400> 13

Arg Ala Ser Gln Phe Val Gly Met Ser Ile His
1 5 10

<210> 14
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<210> 15
<211> 11
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<400> 15

Arg Ala Ser Gln Phe Val Gly Tyr Ser Ile His
1 5 10

<210> 16
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Tyr Ala Ser Glu Ser Met Ser
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<210> 20
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<400> 20
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21

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<400> 21

Tyr Ala Ser Glu Tyr Met Ser
 1 5

<210> 22

<211> 21

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<400> 22

tatgcttctg agtatatgtc t

21

<210> 23

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<223> The residue in this position could be any amino acid

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<210> 24

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21

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<400> 25

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<210> 26

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<400> 26

tatgcttctg agtctaggtc t

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<400> 27

Tyr Ala Ser Glu Ser Lys Ser
1 5

<210> 28

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tatgcttctg agtctaagtc t

21

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Gln Gln Ser His Ser Trp His Phe Thr
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Gly Phe Thr Phe Ser Asn His Trp Met Asn
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Gly Phe Pro Phe Ser Asn His Trp Met Asn
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<400> 43

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Val Lys Gly

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57

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<400> 45

Glu Ile Arg Ser Lys Ser Met Asn Ser Ala Thr His Tyr Ala Glu Ser
1 5 10 15

Val Lys Gly

<210> 46
<211> 57
<212> DNA
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<220>
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<400> 46
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57

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Val Lys Gly

<210> 48
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 1 5 10 15

Val Lys Gly

<210> 50
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<212> DNA
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Val Lys Gly

<210> 52
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<400> 53
Asn Tyr Tyr Gly Ser Thr Tyr Asp His
1 5

<210> 54
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 <212> DNA
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<400> 55

Glu Ile Arg Ser Lys Ser Met Asn Ser Ala Thr His Tyr Ala Arg Ser
 1 5 10 15

Val Lys Gly

<210> 56
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 <212> DNA
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 <211> 23
 <212> PRT
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<400> 57

Glu Ile Val Leu Thr Gln Ser Pro Asp Phe Gln Ser Val Thr Pro Lys
 1 5 10 15

Glu Lys Val Thr Ile Thr Cys
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<210> 58
 <211> 15
 <212> PRT
 <213> Homo sapiens

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<400> 58

Trp Tyr Gln Gln Lys Pro Asp Gln Ser Pro Lys Leu Leu Ile Lys
1 5 10 15

<210> 59

<211> 32

<212> PRT

<213> Homo sapiens

<400> 59

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Leu Thr Ile Asn Ser Leu Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys
20 25 30

<210> 60

<211> 10

<212> PRT

<213> Homo sapiens

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Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
1 5 10

<210> 61

<211> 69

<212> DNA

<213> Homo sapiens

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atcacctgc 69

<210> 62

<211> 45

<212> DNA

<213> Homo sapiens

<400> 62

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<210> 63

<211> 96

<212> DNA

<213> Homo sapiens

<400> 63

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agcctggaag ctgaagatgc tgccacgtat tactgt 96

<210> 64

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<211> 30
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30

<210> 65
<211> 25
<212> PRT
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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 66
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<400> 66

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1 5 10

<210> 67
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<213> Homo sapiens

<400> 67

Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Ser Leu Tyr Leu Gln
1 5 10 15

Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
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<210> 68
<211> 11
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<400> 68

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
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<210> 69
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<212> DNA
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tcctgtgcag cctct 75

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<212> DNA
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<400> 70
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<210> 71
<211> 96
<212> DNA
<213> Homo sapiens

<400> 71
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aaaaccgagg acacggccgt gtattactgt gctaga 96

<210> 72
<211> 33
<212> DNA
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<400> 72
tggggccaag ggaccctggt caccgtctcc tca 33

<210> 73
<211> 11
<212> PRT
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<220>
<223> Synthetic Construct

<400> 73
Arg Ala Pro Gln Phe val Gly ser ser Ile His
1 5 10

<210> 74
<211> 33
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<400> 74
agggccctc agttcggttg ctcaagcatc cac 33

<210> 75
<211> 11

<212> PRT
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<210> 76
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33

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 <211> 11
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<400> 77

Arg Ala Ser Gln Phe Val Tyr Ser Ser Ile His
 1 5 10

<210> 78
 <211> 33
 <212> DNA
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<220>
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<400> 78
 agggccagtc agttcgttta ttcaagcatc cac

33

<210> 79
 <211> 11

<212> PRT
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33

<210> 81
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<400> 81

Gln Gln Ser His Trp Trp His Phe Thr
 1 5

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<400> 82
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27

<210> 83
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<400> 83

Gln Gln Ser His Xaa Trp His Phe Thr
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<210> 84
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 <223> The residues in these positions could be any amino acid

<400> 84
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27

<210> 85
 <211> 357
 <212> DNA
 <213> Homo sapiens

<400> 85
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 tcgtggaact caggcgccct gaccagcggc gtgcacacct tcccggtgt cctacagtcc 180
 tcaggactct actccctcag cagcgtggtg accgtgccct ccagcagctt gggcacccag 240
 acctacatct gcaacgtgaa tcacaagccc agcaacacca aggtggacaa gaaagcagag 300
 cccaaatctt ctactagtgt tctctaccca tatgatgtac ctgattatgc atcatag 357

<210> 86
 <211> 324
 <212> DNA
 <213> Homo sapiens

<400> 86
 cgaactgtgg ctgcaccatc tgtcttcac tccccgcat ctgatgagca gttgaaatct 60
 ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

X16758M.ST25.txt

tggaaggtgg ataacgcct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180
agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240
aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300
agcttcaaca ggggagagtc ttag 324

<210> 87
<211> 39
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<220>
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<400> 87
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<400> 88
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<210> 89
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<220>
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<400> 89
gacagatggt gcagccacag t 21

<210> 90
<211> 39
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<220>
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<400> 90
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<210> 91
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X16758M.ST25.txt

<223> Synthetic Construct

<400> 91

ctctccacag gtgtccactc c

21

<210> 92

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gaagaccgat gggcccttgg t

21

<210> 93

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<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<400> 93

Val Thr Thr Gln Phe Val Gly Tyr Ala Ile His
1 5 10

<210> 94

<211> 33

<212> DNA

<213> Artificial

<220>

<223> Synthetic Construct

<400> 94

gttactactc agttcgttgg ctatgctatc cac

33

<210> 95

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic Construct

<400> 95

Tyr Ala Ser Ser Ser Arg Ser
1 5

<210> 96

<211> 21

<212> DNA

<213> Artificial

<220>

<223> Synthetic Construct

<400> 96

tatgcttctt cgtctaggtc t

21

<210> 97

<211> 9

<212> PRT

<213> Artificial

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<223> Synthetic Construct

<400> 97

Gln Gln Ser His Gly Trp Pro Phe Thr
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<210> 98

<211> 27

<212> DNA

<213> Artificial

<220>

<223> Synthetic Construct

<400> 98

caacaaagtc atgggtggcc tttcacg

27

<210> 99

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Gly Phe Lys Phe Arg Asn His Trp Met Asn
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<212> DNA

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<220>

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X16758M.ST25.txt

<223> Synthetic Construct

<400> 101

Gly Phe Asp Phe Arg Asn His Trp Met Asn
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<210> 102

<211> 30

<212> DNA

<213> Artificial

<220>

<223> Synthetic Construct

<400> 102

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<213> Artificial

<220>

<223> Synthetic Construct

<400> 103

Glu Ile Arg Ser Lys Ser Met Asn Ser Ala Thr Phe Tyr Ala Glu Ser
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Val Lys Gly

<210> 104

<211> 57

<212> DNA

<213> Artificial

<220>

<223> Synthetic Construct

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57

<210> 105

<211> 11

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<213> Artificial

<220>

<223> Synthetic Construct

<400> 105

Ala Ala Ser Gln Phe Val Gly Gln Ala Ile His
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X16758M.ST25.txt

<210> 106
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<400> 106
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33

<210> 107
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<400> 107

Tyr Ala Asn Glu Ser Arg Ser
1 5

<210> 108
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<220>
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<400> 108
tatgctaag agtctaggtc t

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<210> 109
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<400> 109
tggctcccag gtgccaaatg tgaaattgtg ctgactcag

39

<210> 110
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<213> Artificial

<220>
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<400> 110
tggctcccag gtgccaaatg t

21

<210> 111
<211> 21

<212> DNA
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<220>
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<400> 111
 gacagatggg gcagccacag t

21

<210> 112
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39

<210> 113
 <211> 21
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<220>
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<400> 113
 ctctccacag gtgtccactc c

21

<210> 114
 <211> 21
 <212> DNA
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<220>
 <223> Synthetic Construct

<400> 114
 gaagaccgat gggcccttgg t

21